Use your annotating and talking to the text techniques while you read through the first problem. Then record your givens.

High School is having a dance to fundraise money for cancer research. Student tickets are quest may be admitted for \$50. They are having the dance at a local rec center. The rec cer rent for the night, so they have to make at least that much to break even. At least 40 Ford must buy tickets for the dance to happen How many students and guests must go to the make money for cancer research?

Student tickets: 30
Guest tickets: \$50 money.
\$3,000 at least or more

At least 40 FHS students - Students

Unknowns:

I. Define your variables.

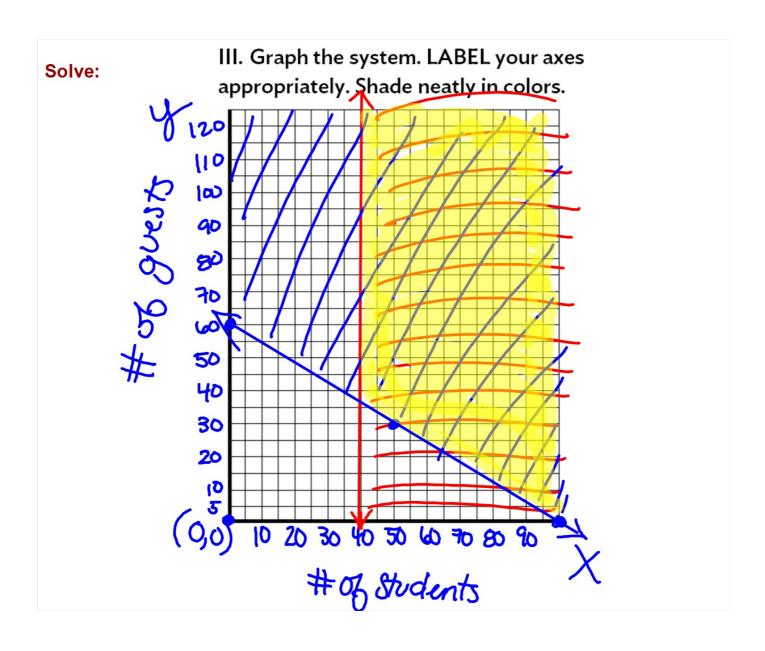
x: Students & y: guests

Equations:

II. Write a system of linear inequalities to model this.

Money: $30x + 50y \ge 3000$

Students: X > 40 x 40 #of students



Sentence: (Explanation of solution)

IV. Will the following amounts of students and guests yield a profit? (Put yes or no)